Interested in Data Science in the Premier Earth Science Agency?



Project Title	Interested in Data Science in the Premier Earth Science Agency?
Summery	Help to identify customers, usage, and trends for USGS Science Analytics & Synthesis scientific applications. Apply leading data science techniques, methods, and algorithms to gain knowledge and insights from scientific structured and unstructured data.
Country	United States

Project Description

The U.S Geological Survey (USGS) Science Analytics and Synthesis (SAS) program supports highly complex, distributed scientific data synthesis and analysis in partnership with remote USGS scientists and collaborators. Key elements of the SAS mission include developing national data products to enable USGS science; leading strategic research and informatics partnerships; creating innovative tools and technologies for scientific discovery, science data life cycle management, and rapid response to science issues; leading advances in biodiversity science and characterizing the biogeography of the nation; and implementation of digital library research and data services. Typical projects include land cover and species distribution modeling, systematics, high performance computing, and effectively processing, managing and providing access to distributed large scientific data (i.e. "Big Data", down scaled model data, large regional land cover datasets, national species distribution data, species occurrence data, digital publications, etc.). The need to perform data science analysis on these various products to determine usage, adoption, trends analysis, and potential gaps is paramount to the organizations delivery and application of these efforts to USGS science priorities.

The intern will work with world class researchers from the USGS offices in Denver, CO, Oak Ridge, TN, and Reston, VA. Application logs, user stories, and other analytics will be provided to the intern to allow remote investigation and insights of the information. Virtual meetings via MS Teams will be established with the Mentors from USGS. These meetings will be focused more on "working meetings" to provide advice, research questions, and review progress.

The intern will gain real world experience in dealing with large scale scientific data challenges being faced by the Nation's leading earth science organization.

Required Skills or Interests

Skill(s))
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Additional Information

U.S Geological Survey, Science Analytics & Synthesis website: https://www.usgs.gov/core-science-systems/science-analytics-and-synthesis/about

Language Requirements

None